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## CRASH COURSE

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## Fifth Semester B.E. Degree Examination, May 2017 **Materials and Surface Coatings**

Time: 3 hrs. Max. Marks: 100

	Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.													
	$\underline{PART - A}$													
1	a. b. c.	Explain about different types of copolymers.	(10 Marks) (05 Marks) (05 Marks)											
2	a. b.	Write a short note on UHMW-HDPE, and chlorinated polyethylene.  Explain about the synthesis and properties of i) polyvinyl chloride, ii) polyvinyl ale												
3	a. b.	Discuss about properties and applications of PMMA, and polyacrylonitrile. Write short notes on poly carbonates, and thermoplastic polyurethane.												
4	a. b.	Briefly discuss synthesis of PTFE, and polychloro fluoroethylene. Mention their	(10 Marks) properties (10 Marks)											
		$\underline{PART} - \underline{B}$												
5	a. b.		rmoplastic (10 Marks) (10 Marks)											
6	a. b.	Define molecular scale adhesion theory. Explain about adsorption theory, a	tations of (10 Marks) and weak (10 Marks)											
7	a. b.	• •	as well as (10 Marks) (10 Marks)											

- a. Mention and explain the components of paint. (04 Marks)
  - What is a can coating? Mention different types of can coating and the requirements for good (08 Marks) can coating.
  - c. Mention different pigment dispersion processes. Explain any two. (08 Marks)